SONY



# FD Trinitron Colour Television

Instruction Manual

GB

# KV-21CT1B KV-14CT1B

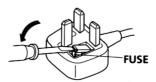
#### **NOTICE FOR CUSTOMERS**

A moulded plug complying with BS1363 is fitted to this equipment for your safety and convenience.

Should the fuse in the plug supplied need to be replaced, a 5 AMP fuse approved by ASTA or BSI to BS 1362 (i.e. marked with # or  $\textcircled{\heartsuit}$ ) must be used.

When an alternative type of plug is used it should be fitted with a 5 AMP FUSE, otherwise the circuit should be protected by a 5 AMP FUSE at the distribution board.

If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Sony service centre.



#### How to replace the fuse

Open the fuse compartment with a blade screwdriver, and replace the fuse.

#### IMPORTANT

If the plug supplied is not suitable for the socket outlets in your home, it should be cut off and an appropriate plug fitted in accordance with the following instructions:

The wires in this mains lead are coloured in accordance with the following code:

Blue Neutral

Brown Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red. Do not connect either wire to the earth terminal in the plug which is marked by the letter E or by the safety earth symbol  $\frac{1}{2}$  or coloured green or green and yellow.

#### WARNING

- To prevent shock hazard, do not insert the plug cut off from the mains lead into a socket outlet. This plug cannot be used and should be destroyed.
- To prevent fire or shock hazard, do not expose the unit to rain or moisture.
- Dangerously high voltages are present inside the set. Do not open the cabinet. Refer servicing to qualified personnel only.

## Introduction

Thank you for choosing this Sony FD Trinitron Colour Television.

Before operating the TV, please read this manual thoroughly and retain it for future reference.

Symbols used in the manual:

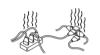
- A Important information
- **(1)** Information on a feature.
- 1,2...Sequence of instructions.

- • Shaded buttons on the remote control show you the buttons you have to press to follow the sequence of the instructions.
- Informs you of the result of instructions.

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## **Safety Information**



This set is to operate on a 220-240V AC supply only. Take care not to connect too many appliances to the same power socket as this could result in fire or electric shock.



For environmental and safety reasons, it is recommended that the TV set is not left in standby mode when not in use Disconnect from the mains



Never push objects of any kind into the set as this could result in a fire or electric shock. Never spill liquid of any kind on the set. If any liquid or solid object does fall through, do not operate the TV. Have it checked immediately by qualified personnel.



Do not open the cabinet and the rear cover of the TV. Refer to qualified service personnel only.



For your own safety, do not touch any part of the TV, power lead or aerial lead during lightning storms.



To prevent fire or shock hazard, do not expose the TV to rain or moisture



Do not cover the ventilation openings of the TV. For ventilation, leave a space of at least 10cm all around the set.



Never place the TV in hot, humid or excessively dusty places. Do not install the TV where it may be exposed to mechanical vibrations

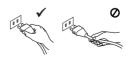


To prevent fire, keep inflammable objects or naked lights (e.g. candles) away from the TV.





Clean the screen and cabinet with a soft, lightly dampened cloth. Do not use any type of abrasive pad, alkaline cleaner, scouring powder or solvent, such as alcohol or benzine, or antistatic spray. As a safety precaution, unplug the TV before cleaning it.



Pull out the power lead by the plug. Do not pull on the power lead itself.



Take care not to place heavy objects on the power lead as this could result in damage. We recommend you wind any excess lead around the holders provided on the rear of the TV.



Place the TV on a secure stable stand. Do not allow children to climb on to it. Do not place the TV on its side or face up.

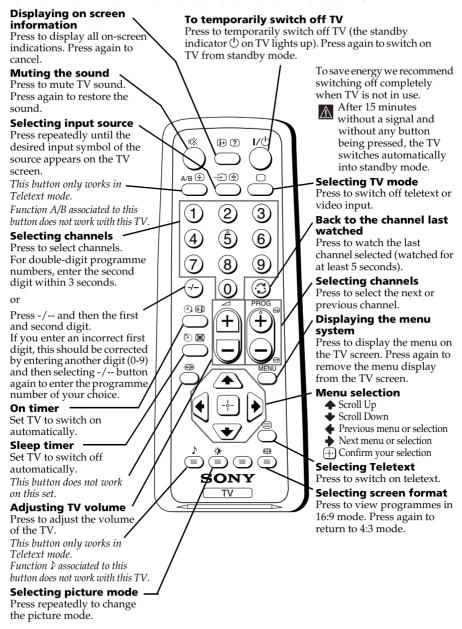


Unplug the power lead before moving the TV. Avoid uneven surfaces, quick steps or excessive force. If the set has been dropped or damaged, have it checked immediately by qualified service personnel.



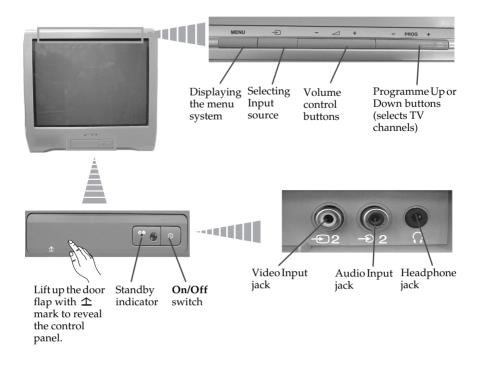
Do not cover the ventilation openings of the TV with items such as curtains or newspapers,

## Overview of Remote Control Buttons



Besides TV functions, all coloured buttons as well as green symbols are also used for Teletext operation. For more details, please refer to "Teletext" section of this instruction manual (see page 16).

## **Overview of TV Buttons**



# **Inserting Batteries into the Remote Control**

Make sure you insert the supplied batteries using the correct polarities. Always remember to dispose of used batteries in an environmental friendly way.





## Connecting an Indoor Aerial (only for KV-14CT1B)

For a better reception we recommend you connect an external aerial. However, where an external aerial is not available and your local VHF/UHF signal is strong, you can connect the supplied indoor aerial as follows:

**1** Insert the aerial into the opening on top of the set until it clicks.



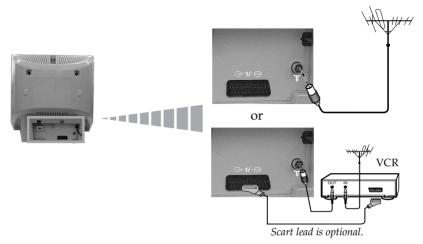
**2** Connect the aerial connector to the aerial socket on the rear of the



**3** After switching on the TV, adjust the aerial for optimum reception.

# **Connecting an Outdoor Aerial and VCR**

Connecting cables are not supplied.



For more details of VCR connection, please refer to the section "Connecting Optional Equipment" of this instruction manual (see page 17).

# **Switching On the TV and Automatically Tuning**

The first time you switch on your TV, a sequence of menu screens appear on the TV enabling you to: 1) choose the language of the menu screen, 2) choose the country in which you wish to operate the TV, 3) search and store all available channels (TV Broadcast), 4) change the order in which the channels (TV Broadcast) appear on the screen and 5) adjust the picture slant (only for KV-21CT1B).

However, if you need to change any of these settings at a later date, you can do that by selecting the appropriate option in the (Set Up) or (Channel Set Up) menu.

1 Connect the TV plug to the mains socket (220-240 V AC, 50 Hz). Press ① On/Off button on the TV set to switch on the TV. The first time you switch on the TV, a Language menu displays automatically on the TV screen.



**2** Press ∠+/- button on the top control panel to select the language, then press ⊕ to confirm your selection. From now on all menus will appear in the selected language.

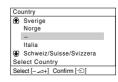


**3** The Country menu appears automatically on the TV screen. Press 

→ +/- button to select the country in which you will operate the TV set, then press ⊕ to confirm your selection.



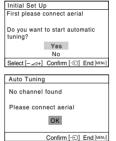
- If the country in which you want to use the TV set does not appear in the list, select "-" instead of a country.
- In order to avoid wrong teletext characters for Cyrillic languages we recommend to select Russia in the case that your own country does not appear in the list.



4 Ensure the aerial is connected as instructed, then press to confirm. The TV automatically starts searching and storing all available broadcast channels for you.

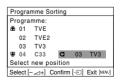


- This procedure could take some minutes. Please be patient and do not press any buttons, otherwise automatic tuning will not be completed.
- If no channels were found during the auto tuning process, a new menu appears automatically on the screen asking you to connect the aerial. Please connect the aerial (see page 7) and press ①. The auto tuning process will start again.

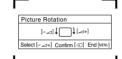


- **5** After all available channels are captured and stored, the **Programme Sorting** menu appears automatically on the screen enabling you to change the order in which the channels appear on the screen.
  - **a)** If you wish to keep the broadcast channels in the tuned order, press MENU.
  - **b)** If you wish to store the channels in a different order:
    - 1 Press  $\triangle +/-$  to select the programme number with the channel (TV Broadcast) you wish to rearrange, then press **→**).
    - 2 Press  $\angle$  +/- to select the new programme number position for your selected channel (TV Broadcast), then press €.
    - 3 Repeat steps b) 1 and b) 2 if you wish to change the order of the other channels.





- **6** The following option is only available for KV-21CT1B. Because of the earth's magnetism, the picture might slant. The Picture Rotation menu allows you to correct the picture slants if it is necessary.
  - **a)** If it is not necessary, press  $\supseteq$ .
  - If it is necessary, press  $\triangle +/-$  to correct any slant of the picture. Finally press 3 to store.



- To allow this menu to appear again, press and hold MENU button at top control panel for about 5 seconds.
  - The MENU,  $\rightarrow$  and  $\spadesuit/\spadesuit/\diamondsuit/\spadesuit$  buttons on the remote control can also be used for the operations above.
- Your TV is now ready for use.

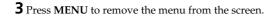
## Introducing and Using the Menu System

Your TV uses an on-screen menu system to guide you through the operations. Use the following buttons on the Remote Control to operate the menu system:

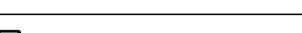
**1** Press MENU to switch the menu on.



- **2** To highlight the desired menu or option, press ◆ or ◆.
  - To enter to the selected menu or option, press →.
  - To return to the last menu or option, press .
  - To alter settings of your selected option, press ♥/♠/♠ or ▶.
  - To confirm and store your selection, press [---].













The "Picture" menu allows you to alter the picture adjustments.

#### To do this:

After selecting the item you want to alter, press  $\blacklozenge$ , then press  $\blacklozenge/\spadesuit/$ 

♠ or ♠ repeatedly to adjust it and finally press [-}- to store the new adjustment.

This menu also allows you to customize the picture mode based on the programme you are watching:

Mode	Live (for enhanced picture contrast and sharpness).  Movie (for a finely detailed picture).  Game (for a picture from game).  Personal (for your own custom settings).	
Picture Adjustment	Contrast	Press ◆ or ◆ to reduce picture contrast.  Press ◆ or ◆ to enhance picture contrast.
	Brightness	Press ◆ or ◆ to darken the picture.  Press ◆ or ◆ to brighten the picture.
	Colour	Press ◆ or ◆ to decrease colour intensity.  Press ◆ or ◆ to increase colour intensity.

Hue	Press $\blacksquare$ or $\blacksquare$ to decrease the green tones.
	Press ♠ or ♦ to increase the green tones.
U	a company has a directed for NTCC colour cional (a.e. LICA video tomos)

Sharpness	Press ◆ or ◆ to soften the picture.  Press ◆ or ◆ to sharpen the picture.
Reset	Select 💮 to reset the picture to the factory preset levels.
On/Off	Select to optimize the picture quality.

Intelligent Picture

> If any changes are made to "Picture Adjustment", "Mode" will switch automatically to "Personal" and the new setting will be stored as "Personal".

# Sound





The "Sound" menu allows you to alter the sound adjustments.

Auto Volume On/Off

Volume level of the channels will stay the same, independent of the broadcast signal (e.g. in the case of advertisements).

# Timer







The "Timer" menu allows you to alter the timer adjustments.

#### Sleep Timer

The "Sleep Timer" option in the "Timer" menu allows you to select a time period for the TV to switch itself automatically into the standby mode.

#### To do this:

After selecting the option, press  $\blacklozenge$ , then press  $\blacklozenge$  or  $\spadesuit$  to set the time period delay (max. of 1 hour 30 minutes) and finally press [----] to store.



- While watching the TV, you can press the 🕒 button on the remote control to display the time remaining.
- One minute before the TV switches itself into standby mode, "TV will turn off soon" is displayed on the TV screen automatically.

#### On Timer

The "On Timer" option in the "Timer" menu allows you to select a time period for the TV to switch itself automatically on from standby mode.

#### To do this:

After selecting the option, press  $\blacklozenge$ , then press  $\blacktriangledown$  or  $\spadesuit$  to set the time period delay (max. of 12 hours) and finally press [---] to store. Finally press the standby button / on the remote control. After the selected length of time, the TV switches on automatically and "On Timer" will appear on the screen.



- The standby indicator  $\circlearrowleft$  on the TV set lights up in amber to indicate that "On Timer" is active.
- Any loss of power will cause these settings to be cleared.
- If no buttons are pressed for more than one hour after the TV is turned on using the "On Timer", the TV automatically goes into standby mode.

# Channel Set Up





The "Channel Set Up" menu allows you to preset channels on this TV.

#### **Auto Tuning**

The "Auto Tuning" option in the "Channel Set Up" menu allows you to automatically search and store all available TV channels.

#### To do this:

After selecting the option, press • and then proceed in the same way as in the step 4 of the section "Switching On the TV and Automatically Tuning" (see page 8).

#### Programme Sorting

The "Programme Sorting" option in the "Channel Set Up" menu allows you to change the order in which the channels (TV Broadcast) appear on the screen.

#### To do this:

After selecting the option, press • and then proceed in the same way as in step 5b) of the section "Switching On the TV and Automatically Tuning" (see page 9).

Programme Labels The "Programme Labels" option in the "Channel Set Up" menu allows you to name a channel using up to five characters (letters or numbers).

#### To do this:

- After selecting the option, press  $\blacklozenge$ . Press  $\blacklozenge$  or  $\spadesuit$  to select the programme number with the channel you wish to name, then press [-\dagger].
- Press . With the first element of the label column highlighted, press ♥ or ♠ to select a letter or number (select "\_" for a blank), then press ightharpoonup to confirm this character. Select the other four characters in the same way. Finally press [---] to store.

continued...

#### Manual Programme Preset

The "Manual Programme Preset" option in the "Channel Set Up" menu allows you to:

a) Preset channels or a video input source one by one to the programme order of your choice.

#### To do this:

- After selecting the "Manual Programme Preset" option, press ◆. Highlight the Programme option and press ◆. Press ◆ or ♠ to select a programme number on which you want to preset the channel (for VCR, select programme number "0"), then press 4.
- The following option is only available depending on the country you have selected in the "Language/Country"
- After selecting the **System** option, press  $\blacklozenge$ . Press  $\blacklozenge$  or  $\spadesuit$  to select the TV Broadcast system (B/G for western European countries, L for France, I for United Kingdom or D/K for eastern European countries), then press [---].
- After selecting the **Channel** option, press  $\blacklozenge$ . Then press  $\blacktriangledown$  or ♠ to select the channel tuning (C for terrestrial channels or S for cable channels). Next press • After that, press the number buttons to directly enter the channel number of the TV Broadcast. If you do not know the channel number, press ♥ or ♠ to search for it. When you tune the desired channel, press - twice to store.

Repeat all the above steps to tune and store more channels.

**b)** Normally the automatic fine tuning (AFT) will give the best possible picture, however you can manually fine tune the TV to obtain a better picture if the picture is distorted.

#### To do this:

While watching the channel (TV Broadcast) you wish to fine tune, select the **AFT** option and press ♣. Next press ◆ or ♠ to adjust the fine tuning between -15 and +15. Finally press [-] twice to store.

c) Skip any unwanted programme numbers when they are selected with the PROG +/- button.

#### To do this:

Highlighting the **Programme** option, press **PROG** +/- to select the programme number you want to skip. When the programme you want to skip appears on the screen, select the **Skip** option and press  $\blacklozenge$ . Next press  $\blacktriangledown$  or  $\spadesuit$  to select **Yes**. Finally press [---] twice to confirm and store.

To cancel this function afterwards, select **No** instead of **Yes** in the step ahove.

# ⊕ Set Up







The "Set Up" menu allows you to alter various options on this TV.

#### Language/ Country

The "Language/Country" option in the "Set Up" menu allows you to select the language that the menus are displayed in.

#### To do this:

After selecting the option, press • and then proceed in the same way as in the step 2 and 3 of the section "Switching On the TV and Automatically Tuning" (see page 8).

## (only for KV-21CT1B)

**Picture Rotation** Because of the earth's magnetism, the picture might slant. In this case, you can correct the picture slant by using the option "Picture Rotation" in the "Set Up" menu.

#### To do this:

After selecting the option, press  $\blacklozenge$ . Press  $\blacklozenge$  or  $\blacklozenge$  ( $\blacklozenge$  or  $\spadesuit$ ) to correct any slant of the picture. Finally press [---] to store.

#### **RGB** Centring

When connecting an RGB source, such as a "PlayStation", you may need to readjust the horizontal position of the picture. In that case, you can readjust it through the "RGB Centring" option in the "Set Up" menu.

#### To do this:

While watching an RGB source, select the "RGB Centring" option and press  $\blacklozenge$ . Press  $\blacklozenge$  or  $\spadesuit$  to adjust the centre of the picture between -10 and +10. Finally press [---] to confirm and store.

## **Teletext**



Teletext is an information service transmitted by most TV stations. The index page of the Teletext service (usually page 100) gives you information on how to use the service. To operate Teletext, use the remote control buttons as indicated below.



Be sure to use a channel (TV Broadcast) with a strong signal, otherwise Teletext errors mav

#### To switch on Teletext:

After selecting the TV channel which carries the Teletext service you wish to view, press

# TELETEXT

#### To select a Teletext page:

Input 3 digits for the page number, using the numbered buttons.

- If you have made a mistake, retype the correct page number.
- If the counter on the screen continues searching, it is because this page is not available. In that case, input another page number.

#### To check the contents of a Teletext service:

Press (Ei)

#### To access the next or preceding page:

Press  $\blacksquare$  or  $\blacksquare$ .

#### To superimpose teletext on to the TV:

Whilst you are viewing Teletext, press . Press it again to cancel Teletext mode.

#### To freeze a teletext page:

Some Teletext pages have sub-pages which follow on automatically. To stop them, press . Press it again to cancel the freeze.

#### To reveal concealed information (e.g., answer to a guiz):

Press (?). Press it again to conceal the information.

#### To enlarge the Teletext display:

Press  $(\hat{\div})$ . Each time you press  $(\hat{\div})$ , the Teletext display changes as follows: Enlarge upper half  $\rightarrow$  Enlarge lower half  $\rightarrow$  Normal size.

#### To stand by for a Teletext page while watching a TV program.

- 1 Enter the Teletext number that you want to refer to, then press \( \)
- 2 When the page number is displayed, press (a) to show the Text.

#### To switch off Teletext:

Press \(\cap\).

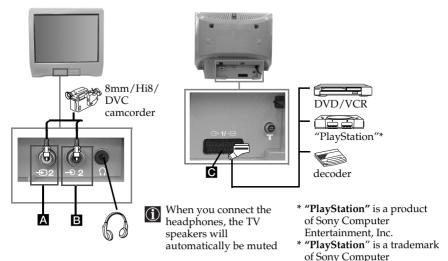
### **Fastext**



(ii) Fastext service lets you access pages with one push of a button. While you are in Teletext mode and Fastext is broadcast, a colour coded menu appears at the bottom of the teletext page. Press the colour button (red, green, yellow or blue) to access the corresponding page.

## **Connecting Optional Equipment**

Using the following instructions, you can connect a wide range of optional equipment to your TV set (connecting cables are not supplied).



### Connecting a VCR:

To connect a VCR, please refer to the section "Connecting an outdoor aerial and VCR" of this instruction manual. We recommend you connect your VCR using a Scart lead. If you do not have a Scart lead, tune in the VCR test signal to the TV programme number "0" by using the "Manual Programme Preset" option (for details on how to manually programme these presets, see page 14, step a).

Refer to your VCR instruction manual to find out how to find the output channel of your VCR.

## **Using Optional Equipment**

- **1** Connect your equipment to the designated TV socket, as indicated above.
- **2** Switch on the connected equipment.
- **3** To watch the picture of the connected equipment, press **€** repeatedly until the correct input symbol appears on the screen.

Symbol	Input Signals
<b>⊕</b> 1	• Audio / video input signal through the Scart connector 🖸
<b>-</b> 1	• RGB input signal through the Scart connector <b>©</b> . This symbol appears only if a RGB source has been connected.
<b>€</b> 2	• Video input signal through the phono socket <b>A</b> and Audio input signal through <b>B</b> .

**4** Press Dutton on the remote control to return to the normal TV picture.

Entertainment, Inc.

## **Specifications**

#### TV system:

Depending on your country selection:

B/G/H, L, I, D/K

#### Colour system:

PAL. SECAM

NTSC 3.58, 4.43 (only Video In)

#### **Channel Coverage:**

VHF: E2-E12 UHF: E21-E69 CATV: \$1-\$20 HYPER: S21-S41

F2-F10, B-O, F21-F69 Ţ. Ŀ UHF B21-B69 D/K: R1-R12, R21-R69

#### Picture Tube:

Flat Display FD Trinitron

#### **Rear Terminals**

→1/→ 21-pin Scart connector

(CENELEC standard) including audio/video input, RGB input, TV audio/video output.

#### Front Terminals

→)2 video input – phono jack ⊕ 2 audio input - phono jack Ω headphones jack

#### Sound Output:

1 x 6 W (music power) 1 x 3 W (RMS)

#### **Power Consumption:**

• KV-21CT1B: 56 W

• KV-14CT1B: 50 W

#### **Standby Power Consumption:**

#### Dimensions (w x h x d):

• KV-21CT1B: Approx. 497 x 461 x 487 mm • KV-14CT1B: Approx. 374 x 355 x 420 mm

#### Weight:

• KV-21CT1B: Approx. 24 kg • KV-14CT1B: Approx. 11 kg

#### **Accessories supplied:**

1 Remote Control (RM-W100) 2 Batteries (IEC designated) 1 Aerial (only for KV-14CT1B)

#### Other features:

- Teletext, Fastext, TOPtext
- Sleep Timer
- On Timer

Design and specifications are subject to change without notice.

Ecological Paper- Totally Chlorine Free

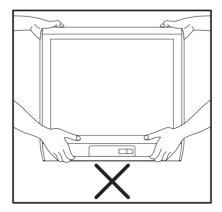
# **Troubleshooting**

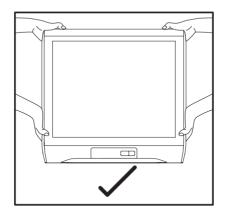
Here are some simple solutions to the problems which may affect the picture and sound.

Problem	Solution
No picture (screen is dark) and no sound.	<ul> <li>Check the aerial connection.</li> <li>Plug the TV in and press the ① button on the front of TV.</li> <li>If the standby indicator <sup>(¹)</sup> is on, press I/<sup>(¹)</sup> button on the remote control.</li> </ul>
Poor or no picture (screen is dark), but good sound.	• Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to the factory settings (see page 10).
No picture or no menu information from equipment connected to the Scart connector.	• Check that the optional equipment is on and press  → repeatedly on the remote control until the correct input symbol is displayed on the screen (see page 17).
Good picture, no sound.	<ul> <li>Press the ∠ + button on the remote control.</li> <li>Check that headphones are not connected.</li> </ul>
No colour on colour programmes.	• Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to factory settings (see page 10).
Distorted picture when changing programmes or selecting teletext.	• Turn off any equipment connected to the Scart connector on the rear of the TV.
Wrong characters appear when viewing teletext.	• Using the menu system, enter the "Language/ Country" option in the "Set Up" menu and select the country in which you operate the TV set. For Cyrillic languages, we recommend to select Russia in the case that your own country does not appear in the list (see page 15).
Picture slanted (only for KV-21CT1B).	• Using the menu system, select the "Picture Rotation" option in the "Set Up" menu to correct the picture slant (see page 15).
Noisy picture when viewing a TV channel.	<ul> <li>Using the menu system, select the "Manual Programme Preset" menu and adjust Fine Tuning (AFT) to obtain better picture reception (see page 14).</li> <li>Using the menu system, select the "Intelligent Picture" option in the "Picture" menu and select "On" to reduce the noise in the picture (see page 10).</li> </ul>
Remote control does not function.	• Replace the batteries.
The standby indicator $\textcircled{1}$ on the TV flashes red.	Contact your nearest Sony service centre.

In case of problems, have your TV serviced by qualified personnel. Never open the casing yourself.

## KV-21CT1B





http://www.sony.net/

**Sony España, S.A.** Printed in Spain

